Index to Volume 48

Author Index

ACHITUV, Y., M. BEN-ZION, and L. MIZRAHI
Carbohydrate, Lipid, and Protein Composition of Zooxanthellae and Animal Fractions of the coral *Pocillopora damicornis* Exposed to Ammonium Enrichment, 224–233

ALLEN, J. A. and T. H. BUTLER
The Caridea (Decapoda) Collected by the Mid-Pacific Mountains Expedition, 1968, 410–445

ATKINSON, M. J., E. KOTLER, and P. NEWTON
Effects of Water Velocity on Respiration, Calcification, and Ammonium Uptake of a *Porites compressa* Community, 296–303

BAUER, AARON M. and ROSS A. SADLIER
The Terrestrial Herpetofauna of the Ile des Pins, New Caledonia, 353–366

BEN-ZION, M.—*see* Achituv et al.

BERNER, TAMAR and IDO IZHAKI
Effect of Exogenous Nitrogen Levels on Ultrastructure of Zooxanthellae from the Hermatypic Coral *Pocillopora damicornis*, 254–262

BOEHLERT, GEORGE W., CHRISTOPHER D. WILSON, and KEISUKE MIZUNO
Populations of the Sternoptychid Fish *Maurolicus muelleri* on Seamounts in the Central North Pacific, 57–69

BOHM, BRUCE A. and MOHAMMED R. KOUPAI-ABYAZANI
Flavonoids and Condensed Tannins from Leaves of Hawaiian *Vaccinium reticulatum* and *V. calycinum* (Ericaceae), 458–463

BOWER, JOHN R.
Spawning Grounds of the Neon Flying Squid, *Ommastrephes bartramii*, near the Hawaiian Archipelago (abstract), 201

BUTLER, T. H.—*see* Allen and Butler

CARR, GERALD D.
The Later Publications of Harold St. John, 188–192

CATALAN, MARIA ANTONINA BATAC and MASAMICHI YAMAMOTO
Annual Reproductive Cycle of Two Japanese Species of Sipunculans: *Siphonosoma cumanense* (Sipunculidae) and *Phascolosoma scolops* (Phascolosomatidae), 145–157

CHAVE, E. H. and B. C. MUNDY
Deep-sea Benthic Fishes of the Hawaiian Archipelago, Cross Seamount, and Johnston Atoll, 367–409

CHAVE, E. H.—*see* Pyle and Chave

COLE, KATHLEEN M.—*see* Vis et al.

COOK, C. B.—*see* Muller-Parker et al.

COX, EVELYN F.—*see* Stambler et al.

CRAIG, PETER, TOM E. MORRELL, and KISO SO'OTO
Subsistence Harvest of Birds, Fruit Bats, and Other Game in American Samoa, 1990–1991, 344–352

CROMPTON, W. DOUGLAS
Laboratory Culture and Larval Development of the Peppermint Shrimp, *Lysmata wurdemanni* (Caridea: Hippolytidae) (abstract), 202

CROW, GERALD L.—*see* Wetherbee et al.

D'ELIA, C. F.—*see* Muller-Parker et al.

DUBINSKY, Z. and P. L. JOKIEL
Ratio of Energy and Nutrient Fluxes Regulates Symbiosis between Zooxanthellae and Corals, 313–324

DUBINSKY, ZVY—*see* Jokiel et al; Stambler et al.

EARLE, JOHN L.—*see* Randall et al.

ELLISON, JOANNA C.
Paleo-lake and Swamp Stratigraphic Records of Holocene Vegetation and Sea-level Changes, Mangaia, Cook Islands, 1–15

ENGEBRETSON, HILARY and KAREN L. M. MARTIN
Effects of Decreased Salinity on Expulsion of Zooxanthellae in the Symbiotic Sea Anemone *Anthopleura elegantissima*, 446–457

FARRAR, EUGENIA—*see* Weber et al.

FITT, W. K.—*see* Yellowlees et al.

FLEIG, ANDREA
Point Mutations Affect Gating of Rat Brain IIA Sodium Channel (abstract), 202

GOCHFELD, DEBORAH J.
Predation-induced Defenses in Hard Corals Reduce Susceptibility to Future Predation (abstract), 203

GRAU, E. GORDON—*see* Weber et al.

HAMBROOK, JULIE A.—*see* Vis et al.

HØEGH-GULDBERG, OVE
Population Dynamics of Symbiotic Zooxanthellae in the Coral *Pocillopora damicornis* Exposed to Elevated Ammonium [$(NH_4)_2SO_4$] Concentrations, 263–272

HØEGH-GULDBERG, O.—*see* Muller-Parker et al.

HOFFMANN, A. J.—*see* Meneses and Hoffmann

IDA, HITOSHI—*see* Randall et al.

INTOH, MICHIKO—*see* Steadman and Intoh

IZHAKI, IDO—*see* Berner and Izhaki

JACOBS, DAVID S.
Distribution and Abundance of the Endangered Hawaiian Hoary Bat, *Lasiurus cinereus semotus*, on the Island of Hawai'i, 193–200

JAMES, HELEN F.—*see* Olson and James

JENSEN, SUSAN L. and GISÈLE MULLER-PARKER
Inorganic Nutrient Fluxes in Anemone-dominated Tide Pools, 32–43

JOKIEL, PAUL L., ZVY DUBINSKY, and NOGA STAMBLER
Results of the 1991 United States–Israel Workshop, "Nutrient Limitation in the Symbiotic Association between Zooxanthellae and Reef-building Corals," 215–218
JOKIEL, PAUL L.—*see* Dubinsky and Jokiel; Stambler et al.

KAPLAN, I. R.—*see* Muscatine and Kaplan
KENYON, JEAN C.
Hybridization and Polyploidy in the Coral Genus *Acropora* (abstract), 203–204
KERR, ALEXANDER M.
Shallow-water Holothuroids (Echinodermata) of Kosrae, Eastern Caroline Islands, 161–174
KOTLER, E.—*see* Atkinson et al.
KOUPAI-ABYAZANI, MOHAMMED R.—*see* Bohm and Koupai-Abyazani
KRAMER, SHARON H.—*see* Kramer et al.
KRAMER, STEVEN H., SHARON H. KRAMER, and STEPHEN J. NEWMAN
New Deep-water Fish Records from the Great Barrier Reef, Australia, 70–79

LEBOT, VINCENT, BRIEN A. MEILLEUR, and RICHARD M. MANSHARDT
Genetic Diversity in Eastern Polynesian Eumusa Bananas, 16–31
LINDSTROM, DANIEL P.
Early Larval Development of the Endemic Hawaiian Stream Goby, *Lentipes concolor* (abstract), 204
LOWE, CHRISTOPHER G.—*see* Wetherbee et al.

MAHON, JEFFREY L.
Advantage of Flexible Juvenile Coloration in Two Species of *Labroides* (Pisces: Labridae) (abstract), 204
MANSHARDT, RICHARD M.—*see* Lebot et al.
MARTIN, KAREN L. M.—*see* Engebretson and Martin
MCAULEY, P. J.
Amino Acid Content of Zooxanthellae Freshly Isolated from *Pocillopora damicornis*, 247–253
MCAULEY, P. J.—*see* Muller-Parker et al.
MCCLOSKEY, L. R.—*see* Muller-Parker et al.
MEILLEUR, BRIEN A.—*see* Lebot et al.
MENESES, I. and A. J. HOFFMANN
Contribution to the Marine Algal Flora of San Félix Island, Desventuradas Archipelago, Chile, 464–474
MIZRAHI, L.—*see* Achituv et al.
MIZUNO, KEISUKE—*see* Boehlert et al.
MORRELL, TOM E.—*see* Craig et al.
MULLER-PARKER, G., C. B. COOK, and C. F. D'ELIA
Elemental Composition of the Coral *Pocillopora damicornis* Exposed to Elevated Seawater Ammonium, 234–246
MULLER-PARKER, G., L. R. MCCLOSKEY, O. HØEGH-GULDBERG, and P. J. MCAULEY
Effect of Ammonium Enrichment on Animal and Algal Biomass of the Coral *Pocillopora damicornis*, 273–283
MULLER-PARKER, GISÈLE—*see* Jensen and Muller-Parker

MUNDY, B. C.—*see* Chave and Mundy
MURPHY-WALKER, SUSAN
Oviductal Sperm Storage Potential in *Hemidactylus frenatus* Lizards (Gekkonidae) (abstract), 205
MUSCATINE, L. and I. R. KAPLAN
Resource Partitioning by Reef Corals as Determined from Stable Isotope Composition II. $\delta^{15}N$ of Zooxanthellae and Animal Tissue versus Depth, 304–312

NAKASONE, YUKIO AND MASATSUNE TAKEDA
A New Hymenosomatid Crab, *Elamenopsis okinawaensis*, n. sp. (Crustacea: Hymenosomatidae), from Okinawa, the Ryukyu Islands, Japan, 158–160
NEWMAN, STEPHEN J.—*see* Kramer et al.
NEWTON, P.—*see* Atkinson et al.

OLSON, STORRS L.
Type Specimens of Hawaiian Birds Named by Sanford Ballard Dole, 339–343
OLSON, STORRS L. and HELEN F. JAMES
A Specimen of Nuku pu'u (*Hemignathus lucidus*) from the Island of Hawai'i (Aves: Drepanidini), 331–338

PYLE, RICHARD L. and E. H. CHAVE
First Record of the Chaetodontid Genus *Prognathodes* from the Hawaiian Islands, 90–93

RANDALL, JOHN E., HITOSHI IDA, and JOHN L. EARLE
Ammodytoides pylei, a New Species of Sand Lance (Ammodytidae) from the Hawaiian Islands, 80–89
RANDALL, JOHN E.—*see* Stepien et al.
REES, T. A. V.—*see* Yellowlees et al.
ROMANO, SANDRA L.
A First Glimpse of the Molecular Phylogeny of Corals (abstract), 205–206
ROSENBLATT, RICHARD H.—*see* Stepien et al.

SADLIER, ROSS A.—*see* Bauer and Sadlier
SHEATH, ROBERT G.—*see* Vis et al.
SO'OTO, KISO—*see* Craig et al.
STAMBLER, NOGA, EVELYN F. COX, and RAZI VAGO
Effect of Ammonium Enrichment on Respiration, Zooxanthellar Densities, and Pigment Concentrations in Two Species of Hawaiian Corals, 284–290
STAMBLER, NOGA, PAUL L. JOKIEL, and ZVY DUBINSKY
Nutrient Limitation in the Symbiotic Association between Zooxanthellae and Reef-building Corals: The Experimental Design, 219–223
STAMBLER, NOGA—*see* Jokiel et al.
STEADMAN, DAVID W. and MICHIKO INTOH
Biogeography and Prehistoric Exploitation of Birds from Fais Island, Yap State, Federated States of Micronesia, 116–135
STEPIEN, CAROL A., JOHN E. RANDALL, and RICHARD H. ROSENBLATT
Genetic and Morphological Divergence of a Circumtropical Complex of Goatfish-s: *Mulloidichthys vanicolensis, M. dentatus,* and *M. martinicus*, 44–56

TAKEDA, MASATSUNE—*see* Nakasone and Takeda
TOM, CHRIS K. F.—*see* Weber et al.

VAGO, RAZI—*see* Stambler et al.
VANDERWERF, ERIC A.
Scales of Habitat Selection by Foraging 'Elepaio in Undisturbed and Human-altered Forests in Hawai'i (abstract), 206
VIS, MORGAN L., ROBERT G. SHEATH, JULIE A. HAMBROOK, and KATHLEEN M. COLE
Stream Macroalgae of the Hawaiian Islands: A Preliminary Study, 175–187

WEBER, GREGORY M., EUGENIA FARRAR, CHRIS K. F. TOM, and E. GORDON GRAU
Changes in Whole-body Thyroxine and Triiodothyronine Concentrations and Total Content during Early Development and Metamorphosis of the Toad *Bufo marinus* (abstract), 206–207
WETHERBEE, BRADLEY M., CHRISTOPHER G. LOWE, and GERALD L. CROW
A Review of Shark Control in Hawaii with Recommendations for Future Research, 95–115
WHITTOW, G. C.
Incubation Biology and Nestling Growth of Bulwer's Petrels on Manana Island, Oahu, Hawaii, 136–144
WILSON, CHRISTOPHER D.—*see* Boehlert et al.

YAMAMOTO, MASAMICHI—*see* Catalan and Yamamoto
YELLOWLEES, D., T. A. V. REES, and W. K. FITT
Effect of Ammonium-supplemented Seawater on Glutamine Synthetase and Glutamate Dehydrogenase Activities in Host Tissue and Zooxanthellae of *Pocillopora damicornis* and on Ammonium Uptake Rates of the Zooxanthellae, 291–295

Subject Index

Acropora, hybridization and polyploidy, 203–204
alga, freshwater, in Hawaiian Islands, 175–187
  marine, flora of San Félix Island, Chile, 464–474
  reef coral symbionts (zooxanthellae) and nutrient limitation, 213–324
Ammodytes pylei, n. sp., 80–89
anemone—see *Anthopleura elegantissima*
ammonium, effect of enrichment on corals and zooxanthellae, 213–324
Anthopleura elegantissima, effect of salinity on expulsion of zooxanthellae, 446–457
  release of ammonium, 32–43

banana, Polynesian Eumusa, genetic diversity, 16–31
bat, fruit, subsistence harvest in American Samoa, 344–352
  Hawaiian hoary—see *Lasiurus cinereus semotus*
Batrachospermum spermatiophorum, n. sp., 175–187
birds, biogeography and prehistoric exploitation on Fais Island, 116–135
  Hawaiian, type specimens named by S. B. Dole, 339–343
  subsistence harvest in American Samoa, 344–352
Bufo marinus, changes in thyroid hormone concentrations, 206–207
Bulweria bulwerii, incubation and nestling growth, 136–144

Carcharhinus plumbeus, control in Hawai'i, 95–115
Caridae, collected by Mid-Pacific Mountains Expedition, 410–445
Chaetodontidae, 90–93
Chasiempis sandwichensis, habitat selection, 206
coral, hybridization and polyploidy in *Acropora*, 203–204
  molecular phylogeny, 205–206
  nutrient limitation in association with zooxanthellae, 213–324
  predation-induced defense, 203
crab—see *Elamenopsis okinawaensis*

Decapoda, 410–445
Drepanidini, 331–338

Elamenopsis okinawaensis, 158–160
'elepaio—see *Chasiempis sandwichensis*
Ericaceae, 458–463

fish, deep sea benthic, from Hawaiian Archipelago, Cross Seamount, and Johnston Atoll, 367–409
  deep-water, new records from Great Barrier Reef, 70–79

Galeocerdo cuvier, control in Hawai'i, 95–115
Gekkonidae, 205
goatfish, genetic and morphological divergence—see *Mulloidichthys*
goby, Hawaiian stream—see *Lentipes concolor*

Hemidactylus frenatus, oviductal sperm storage, 205
Hemignathus lucidus, from island of Hawai'i, 331–338
herpetofauna, of Ile des Pins, New Caledonia, 353–366
Hippolytidae, 202
Holothuroidea, shallow-water species of Kosrae, 161–174
Hymenosomatidae, 158–160

Labroides, juvenile coloration, 204
Lasiurus cinereus semotus, distribution and abundance on Hawai'i, 193–200
Lentipes concolor, early larval development, 204
lightfish—see *Maurolicus muelleri*
Lysmata wurdemanni, lab culture and larval development, 202

macroalga, freshwater, in Hawaiian Islands, 175–187
Maurolicus muelleri, populations on North Pacific seamounts, 57–69
Montipora verrucosa, effect of ammonium enrichment, 284–290
Mulloidichthys, 44–56
Musa sp., genetic diversity in eastern Polynesia, 16–31

Nuku pu'u—see *Hemignathus lucidus*

Ommastrephes bartramii, spawning grounds, 201

petrel, Bulwer's—see *Bulweria bulwerii*
Phascolosoma scolops, annual reproductive cycle, 145–157
Pocillopora damicornis, nutrient limitation in association with zooxanthellae, 213–324
Porites compressa, effect of water velocity on physiology, 296–303
Prognathodes, first record from Hawaiian Islands, 90–93

sand lance—see *Ammodytes pylei*
sea level, changes during Holocene, 1–15
shark, review of control in Hawai'i, 95–115
  sandbar—see *Carcharhinus plumbeus*
  tiger—see *Galeocerdo cuvier*
shrimp—see Caridae
shrimp, peppermint—see *Lysmata wurdemanni*
Siphonosoma cumanense, annual reproductive cycle, 145–157
Sipunculidae, 145–157
sodium channel gating, effect of point mutations, 202
squid, neon flying—see *Ommastrepes bartramii*
St. John, Harold, later publications, 188–192
Sternoptychidae, 57–69
stratigraphy, of swamps and lakes in Cook Islands, 1–15

tide pool, inorganic nutrient flux, 32–43
toad—see *Bufo marinus*

Vaccinium, flavonoids and condensed tannins from leaves, 458–463
vegetation, stratigraphic study of Holocene changes in Cook Islands, 1–15
zooxanthellae, association with reef-building corals, 213–324
effect of salinity on expulsion from symbiotic sea anemone, 446–457